

Registry System Testing

DNS RSP Change Test Plan

Version ~~B~~C

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Revisions

Date	Version	Name	Description
2017-07-27	A	Mats Dufberg	First release version.
2021-06-10	B	Mauro Lozano	Update references.
2025-10-29	C	Mustafa Alrifae	Remove WHOIS test area.

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1. Introduction

This Test Plan defines the DNS RSP Change Testing of the new gTLDs.

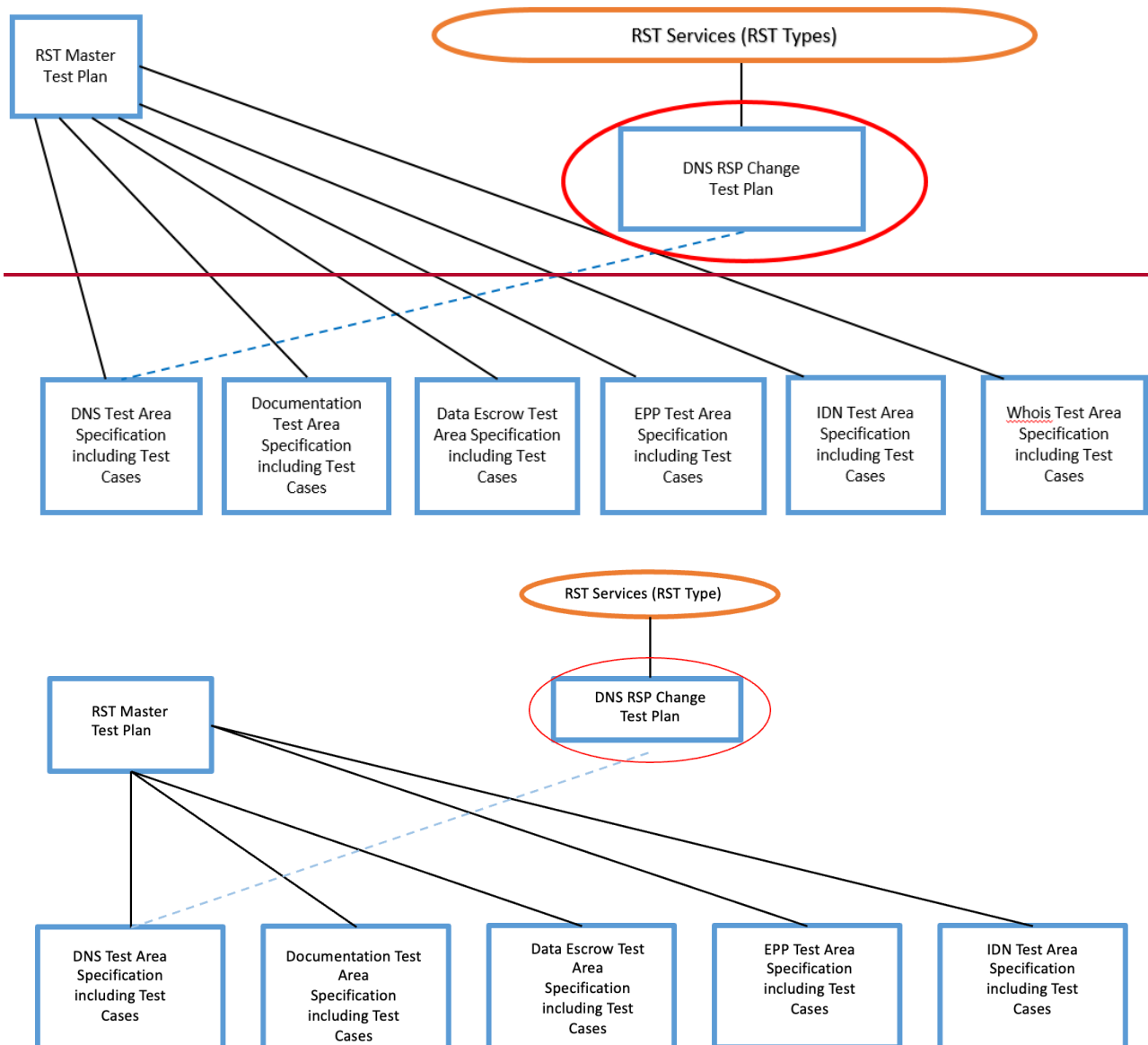
1.1 Scope

The RST Service Provider will test the DNS technical infrastructure.

1.2 References

- Registry System Testing, DNS Test Area Specification

1.3 Document Hierarchy



This document is one of many that specifies the Test Plan for a specific RST Type (circled in red in the above graphic).

2. Details for DNS RSP Change test plan

The following test levels are included in DNS RSP Change Testing (RSPDNS):

- DNS

Only the test cases listed in this document will be included in a DNS RSP Change Test.

2.1 Test Cases included in a DNS RSP Change Test

2.1.1 DNS

For details about a test case, refer to the DNS Test Area Specification document.

- DNS02 Name server reachability
- DNS03 Answer authoritatively
- DNS04 Network diversity
- DNS07 SOA record consistency between authoritative name servers
- DNS08 NS record consistency between authoritative name servers
- DNS10 Prohibited networks
- DNS11 No open recursive name service
- DNS12 Same source address
- DNS14 Legal values for the DS hash digest algorithm
- DNS15 DS must match a DNSKEY in the designated zone
- DNS16 Signatures in the designated zone must validate
- DNS17 Zone contains NSEC or NSEC3 records
- DNS19 SOA record consistency between authoritative name servers
- DNS20 NS record consistency between authoritative name servers
- DNS21 No open recursive name service
- DNS23 Syntax for SOA RNAME
- DNS24 SOA Minimum
- DNS25 NSEC3 Iterations
- DNS26 RRSIG Lifetimes
- DNS27 DNSKEY Algorithms
- DNS31 nic.<TLD> or whois.nic.<TLD> must be delegated
- DNS32 Name server reachability
- DNS33 Answer authoritatively
- DNS36 RRSIG(SOA) must validate with supplied DS record

3. General

3.1 Glossary

The glossary is available in the RST Master Test Plan.

3.2 Document change procedures

Document change procedures are documented in the RST Master Test Plan.